

WHAT IS CLAIMED IS:

1. An image processing apparatus wherein when an output device is used to output a proof image reproducing a printed image in which a process color print image constituting of process colors and a spot color print image are superposed upon each other, proof image data for the output device, that is representative of the proof image, is created through processing of printing image data representative of the printed image, the image processing apparatus comprising:

an image data obtaining section that obtains the printing image data;

15 an image data conversion section that converts the printing image data obtained in the image data obtaining section into the proof image data through processing of the printing image data presupposing a reproduction system for the printed image in the output device;

20 an additional image data creating section that creates additional image data for the output device, which is representative of an additional image describing a reproduction property of a spot color in the reproduction system presupposed when the image data conversion section processes printing image data; and

25 an image data output section that outputs to the output device the proof image data converted in the image data conversion section and the additional image data

created in the additional image data creating section, so that the output device outputs the proof image and the additional image.

5 2. An image processing apparatus according to
claim 1, wherein the additional image data creating section
creates additional image data representative of an
additional image describing whether the spot color in the
printed image is a color within a color reproduction area
10 of the output device.

15 3. An image processing apparatus according to
claim 1, wherein the additional image data creating section
creates additional image data representative of an
additional image describing with numerical values ranks
where a degree of the reproduction property is divided into
a plurality of ranks.

20 4. An image processing apparatus according to
claim 1, wherein the additional image data creating section
creates additional image data representative of an
additional image associating a color chip of the spot color
constituting the spot color print image with a description
of reproduction property.
25

5. An image processing apparatus wherein when an
output device is used to output a proof image reproducing a

printed image in which a process color print image
constituting of process colors and a spot color print image
are superposed upon each other, proof image data for the
output device, that is representative of the proof image,
5 is created through processing of printing image data
representative of the printed image, the image processing
apparatus comprising:

an image data obtaining section that obtains the
printing image data having a first image data portion
10 representative of the process color print image and a
second image data portion representative of the spot color
print image;

an image data conversion section that converts the
printing image data obtained in the image data obtaining
15 section into the proof image data through processing of the
printing image data presupposing a reproduction system for
the printed image in the output device;

an additional image data creating section that
creates additional image data for the output device, which
20 is representative of an additional image describing the
reproduction system for a spot color in the output device
presupposed when the image data conversion section
processes the second image data portion; and

an image data output section that outputs to the
25 output device the proof image data converted in the image
data conversion section and the additional image data
created in the additional image data creating section, so

that the output device outputs the proof image and the additional image.

6. An image processing apparatus according to
5 claim 1, wherein the additional image data creating section creates additional image data representative of an additional image describing a sort of ink used when the output device reproduces the spot color.

10 7. An image processing apparatus according to
claim 1, wherein the additional image data creating section creates additional image data representative of an additional image associating a color chip of the spot color with a description of reproduction system for the spot
15 color.

8. An image processing apparatus according to
claim 1, wherein the output device reproduces the spot
color by superposing inks of process colors using a
20 specified halftone dot pattern, and

the additional image data creating section creates additional image data representative of an additional image describing a sort of the halftone dot pattern.

25 9. An image processing program storage medium storing an image processing program which causes a computer to operate as an image processing apparatus, when the image

processing program is incorporated into the computer and is executed, the image processing apparatus comprising:

an image data obtaining section that obtains the printing image data;

5 an image data conversion section that converts the printing image data obtained in the image data obtaining section into the proof image data through processing of the printing image data presupposing a reproduction system for the printed image in the output device;

10 an additional image data creating section that creates additional image data for the output device, which is representative of an additional image describing a reproduction property of a spot color in the reproduction system presupposed when the image data conversion section processes printing image data; and

15 an image data output section that outputs to the output device the proof image data converted in the image data conversion section and the additional image data created in the additional image data creating section, so that the output device outputs the proof image and the additional image.

20 10. An image processing program storage medium storing an image processing program which causes a computer to operate as an image processing apparatus, when the image processing program is incorporated into the computer and is executed, the image processing apparatus comprising:

an image data obtaining section that obtains the printing image data having a first image data portion representative of the process color print image and a second image data portion representative of the spot color
5 print image;

an image data conversion section that converts the printing image data obtained in the image data obtaining section into the proof image data through processing of the printing image data presupposing a reproduction system for
10 the printed image in the output device;

an additional image data creating section that creates additional image data for the output device, which is representative of an additional image describing the reproduction system for a spot color in the output device
15 presupposed when the image data conversion section processes the second image data portion; and

an image data output section that outputs to the output device the proof image data converted in the image data conversion section and the additional image data
20 created in the additional image data creating section, so that the output device outputs the proof image and the additional image.